ifm electronic

CE

Operating instructions
(Safety-related part ATEX)
Inductive NAMUR sensors

UK

NF**/ NG****/ NI****/ NM****

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Remarks for safe use in hazardous areas

Function and features

- Use in hazardous areas according to the classification
  II 1G / 2G (Group II, category 1G / 2G, apparatus for gas atmosphere).
  The standards IEC 60079-0:2011, EN 60079-11:2012, EN 60079-26:2006+Corr2009 are applied.
- Use in hazardous areas according to the classification
  II 1D (Group II, category 1D, apparatus for dust atmosphere).
  The unit conforms to the requirements of IEC 60079-0:2011 and EN 60079-11:2012.
  EC type test certificate

BVS 04 ATEX E091X

- Marking

Ex II 1G Ex ia IIC T6 Ga Ex II 1D Ex ia IIIC T 90°C Da	NF500A, NF501A NG500A, NG501A
Ex II 1G Ex ia IIB T6 Ga Ex II 2G Ex ia IIC T6 Gb Ex II 1D Ex ia IIIC T 90°C Da	NI500A, NI501A
Ex II 2G Ex ia IIB T6 Gb Ex II 1D Ex ia IIIC T 90°C Da	NM500A, NM501A

- Permissible ambient temperature of the application (proper usage):

Ta: -20°C...+70°C

Installation / Setup

Only qualified staff with a knowledge of protection classes, regulations and provisions for apparatus in hazardous locations may install, connect and set up the units.
Check whether the classification (see „Marking“ above and marking on the unit) is suitable for the application.

- Sensor connection: Only to intrinsically safe certified circuits or evaluation amplifiers which do not exceed the following maximum values of the units:

Ui = 15 V, Ii = 50 mA, Pi = 120 mW

- Maximum effective internal inductance (Li) and capacitance (Ci) per sensor:

Article no.	Internal inductance in µH	Internal capacitance in nF
NF500A	145	210
NF501A	115	210
NG500A	85	200
NG501A	190	200
NI500A	120	250
NI501A	210	230
NM500A	450	250
NM501A	710	220

Installation remarks / Mounting

- Adhere to the relevant national regulations and provisions.
- The unit must conform to the corresponding installation regulations.
- Avoid electrostatic charging from housings and cables.
- When used in zone 0, the sockets must be protected against intensive electrostatic charging.
- To avoid electrostatic charging steps must be taken to ensure the equalisation of potential of metal parts (plug housing, fixing elements, etc.).
- Protect the units efficiently against damage.
- The units must not be installed in the partition between different zones.

Special conditions for safe operation

- Always refer to the operating instructcions as space restrictions may not allow all markings to be applied to the unit.

Maintenance / Repair

The unit must not be modified nor can it be repaired. In case of a fault please contact the manufacturer.
If needed, you can obtain data sheets or EC type test certificates from the manufacturer.